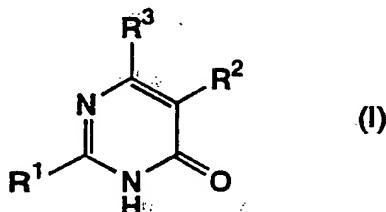


CLAIMS

1. A pyrimidone derivative represented by formula (I) or a salts thereof, or a solvate thereof or a hydrate thereof:



wherein R¹ represents a C₁-C₁₈ alkyl group which may be substituted, a C₃-C₁₈ alkenyl group which may be substituted, a C₃-C₁₈ alkynyl group which may be substituted, a C₃-C₈ cycloalkyl group which may be substituted, a C₆-C₁₄ aryl group which may be substituted, a C₁-C₁₈ alkyloxy group which may be substituted, a C₃-C₁₈ alkenyloxy group which may be substituted, a C₃-C₁₈ alkynyloxy group which may be substituted, a C₃-C₈ cycloalkyloxy group which may be substituted, a C₆-C₁₄ aryloxy group which may be substituted, a heterocyclic group which may be substituted, or a group represented by -N(R⁴)-W-R⁵ wherein R⁴ and R⁵ independently represent a hydrogen atom, a C₁-C₁₈ alkyl group which may be substituted, a C₃-C₁₈ alkenyl group which may be substituted, a C₃-C₁₈ alkynyl group which may be substituted, a C₃-C₈ cycloalkyl group which may be substituted, or a C₆-C₁₄ aryl group which may be substituted, and symbol "W" represents a single bond, a carbonyl group, a sulfonyl group, or a nitrogen atom which may be substituted with a C₁-C₁₈ alkyl group which may be substituted;

R² represents a hydrogen atom, hydroxyl group, a C₁-C₈ alkyl group which may be substituted, a C₃-C₈ alkenyl group which may be substituted, a C₃-C₈ cycloalkyl group which may be substituted, a C₁-C₈ alkyloxy group which may be substituted, a C₃-C₈ cycloalkyloxy group which may be substituted, a

C₆-C₁₄ aryloxy group which may be substituted, a C₁-C₈ alkylthio group which may be substituted, a halogen atom, nitro group, cyano group, an amino group which may be substituted, carboxyl group, a C₁-C₈ alkyloxycarbonyl group which may be substituted, a C₃-C₈ cycloalkyloxycarbonyl group which may be substituted, carbamoyl group, a C₁-C₈ alkylaminocarbonyl group which may be substituted, or a C₁-C₈ dialkylaminocarbonyl group which may be substituted; and R³ represents a pyridyl group which may be substituted.

2. The pyrimidone derivative or the salts thereof, or the solvate thereof or the hydrate thereof according to claim 1, wherein R² is hydrogen atom, a C₁-C₈ alkyl group, or a halogen atom.

3. The pyrimidone derivative or the salts thereof, or the solvate thereof or the hydrate thereof according to claim 2, wherein R² is hydrogen atom.

4. The pyrimidone derivative or the salts thereof, or the solvate thereof or the hydrate thereof according to claim 1, wherein R¹ is a C₁-C₁₈ alkyl group which may be substituted, a C₃-C₈ cycloalkyl group which may be substituted, a C₆-C₁₄ aryl group which may be substituted, a heterocyclic group which may be substituted by an alkyl group, or a group represented by -N(R⁴)-W-R⁵ wherein R⁴ and R⁵ independently represent a hydrogen atom, a C₁-C₁₈ alkyl group which may be substituted, or a C₆-C₁₄ aryl group which may be substituted; and symbol "W" represents a single bond or carbonyl group.

5. The pyrimidone derivative or the salts thereof, or the solvate thereof or the hydrate thereof according to claim 4, wherein R¹ is a C₁-C₁₈ alkyl group which may be substituted, a C₃-C₈ cycloalkyl group which may be substituted, a C₆-C₁₄ aryl group which may be substituted, a heterocyclic

group which may be substituted by an unsubstituted alkyl group, or a group represented by $-N(R^4) \cdot W \cdot R^5$ wherein R^4 and R^5 independently represent a hydrogen atom, a C_1 - C_{18} alkyl group which may be substituted, or a C_6 - C_{14} aryl group which may be substituted, and symbol "W" represents a single bond.

6. The pyrimidone derivative or the salts thereof, or the solvate thereof or the hydrate thereof according to claim 1, wherein R^3 represents 4-pyridyl group.

7. A pyrimidone derivative which is selected from the group consisting of:

2-(3-pyridyl)-6-(4-pyridyl)pyrimidin-4-one,
2-phenyl-6-(4-pyridyl)pyrimidin-4-one,
6-(4-pyridyl)-2-(2-tolyl)pyrimidin-4-one,
6-(4-pyridyl)-2-(3-tolyl)pyrimidin-4-one,
2-(4-methylbenzyl)-6-(4-pyridyl)pyrimidin-4-one,
2-(4-chlorobenzyl)-6-(4-pyridyl)pyrimidin-4-one,
6-(4-pyridyl)-2-(2-thienylmethyl)pyrimidin-4-one,
2-(3-phenylpropyl)-6-(4-pyridyl)pyrimidin-4-one,
2-amino-6-(4-pyridyl)pyrimidin-4-one, and
2-(N-isobutyl-N-methylamino)-6-(4-pyridyl)pyrimidin-4-one

or a salts thereof, or a solvate thereof or a hydrate thereof

8. A medicament comprising as an active ingredient a substance selected from the group consisting of a pyrimidone derivative represented by formula (I) or a salts thereof, or a solvate thereof or a hydrate thereof according to claim 1.

9. A tau protein kinase 1 inhibitor selected from the group of a pyrimidone derivative represented by formula (I) or a salts thereof, or a

solvate thereof or a hydrate thereof according to claim 1.

10. The medicament according to claim 8 which is used for preventive and/or therapeutic treatment of a disease caused by tau protein kinase 1 hyperactivity.

11. The medicament according to claim 8 which is used for preventive and/or therapeutic treatment of a neurodegenerative disease.

12. The medicament according to claim 11, wherein the disease is selected from the group consisting of Alzheimer disease, ischemic cerebrovascular accidents, Down syndrome, cerebral bleeding due to cerebral amyloid angiopathy, progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic encephalitis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration and frontotemporal dementia.

add
A2